

D.N. 0194.98

We claim:

1. A transformation system comprising a vector containing a nucleotide sequence from a piggyBac transposon in which is inserted an enhanced green fluorescent protein gene linked to a promoter region of a polyubiquitin gene and a nuclear localizing sequence of an SV40 virus.
2. A transformation system of claim 1 further comprising a *piggyBac* transposase helper plasmid under heat-shock promoter regulation.
3. The transformation system of claim 1 wherein said polyubiquitin gene is from *Drosophila melanogaster*.
4. The transformation system of claim 2 wherein said polyubiquitin gene is from *Drosophila melanogaster*.
5. The transformation system of claim 1 wherein said *piggyBac* transposon is modified by deleting about 748 bp of internal *piggyBac* sequence.
6. A vector having SEQ ID NO 6.

D.N. 0194.98

7. A transgenic organism transformed using the transformation system of claim 3 wherein in said organism is detectable under ultraviolet light.

8. A transgenic insect transformed using the transformation system of claim 3 wherein said insect is detectable under ultraviolet light.

9. The transgenic insect of claim 8 that continues to be detectable under ultraviolet light after death.